

Amendments to the Claims:

Claims 1 and 12 are amended as set forth below.

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A surgical microscope comprising:
  - a viewing unit for viewing an object;
  - an image projection module for inputting image data into said viewing unit;
  - 5 said image projection module including an image display unit for displaying said image data; and,
    - said image projection module including a plano-convex lens and a plano-concave lens mounted downstream of said image display unit unit; and,
  - 10 said plano-convex lens having an exactly planar surface of zero radius of curvature and a convex surface.
2. (Original) The surgical microscope of claim 1, wherein said plano-convex lens has a first focal length and said plano-concave lens has a second focal length; and, the ratio of said first focal length and said second focal length lies within a range  
5 from 1.9 to 2.5.
3. (Original) The surgical microscope of claim 1, wherein said

viewing unit defines a viewing beam path; and, said image projection module includes a beam splitter mounted in said viewing beam path.

4. (Original) The surgical microscope of claim 3, wherein said plano-convex lens is a first plano-convex lens; said image projection unit further including a concave-convex lens and a second plano-convex lens; said first plano-convex lens, said 5 plano-concave lens, said concave-convex lens and said second plano-convex lens all being arranged between said image display unit and said beam splitter.

Claims 5 to 7 (Cancelled).

8. (Previously Presented) The surgical microscope of claim 1, wherein said image display unit includes a reflection display driven at a clock frequency and illuminated sequentially with different colors as a function of time.

9. (Previously Presented) The surgical microscope of claim 8, wherein said image display unit includes a rotatably mounted filter wheel for illuminating said reflection display; and, a device for synchronizing the rotation of said filter wheel to 5 said clock frequency of said reflection display.

Claims 10 and 11 (Cancelled).

12. (Currently Amended) A surgical microscope comprising:

a viewing unit for viewing an object;  
an image projection module for inputting image data into  
said viewing unit;

5           said image projection module including an image display unit  
for displaying said image data;

          said viewing unit defining a viewing beam path;

          an optical device mounted in said viewing beam path for  
providing an image of said object to a location outside of said  
10          viewing beam path;

          an image recording module for recording an image of said  
object supplied by said viewing unit; and,

          said image recording module including:

15          an image sensor mounted to receive said image data from said  
image projection module;

          an image recording beam splitter mounted outside of said  
viewing beam path for directing said image of the object onto  
said image sensor;

          a recording device connected to said image sensor for  
20          recording said image data and said image of said object; and,

          said image display unit including a reflection display; and,  
wherein a time-dependent sequential illumination of said  
reflection display with only a single color is improved provided  
so that the brightness of said image display unit is increased  
25          compared to a display exposed to sequentially RGB illumination.

13. (Previously Presented) A surgical microscope comprising:  
a viewing unit for viewing an object and said viewing unit  
defining a viewing beam path;

an image projection module for inputting image data into  
5 said viewing unit;

said image projection module including an image display unit  
for displaying said image data for transmission into said viewing  
unit; and,

10 said image display unit including a reflection display  
driven at a clock frequency and illuminated sequentially with  
only a single color as a function of time.

14. (Previously Presented) The surgical microscope of claim 1,  
wherein said viewing unit defines a viewing beam path; and, said  
image projection module includes a Galileo system comprising a  
diverging lens and a converging lens arranged so as to permit  
5 said image display unit to be optimally coupled into said viewing  
beam path.